

1612

7



• AMPWASH



*Automatic
electric*
AMPOULE
*Washing
Machine*

PerfeKtum Ampwash

*Improved Method and Means of Washing
and Cleansing Ampoules, Vials, Tubes, Etc.*

The PerfeKtum Ampwash automatically feeds, cleanses and discharges the ampoules or other similar glass containers.

The PerfeKtum Ampwash will cleanse a variety of glass containers of different sizes and shapes simultaneously and successively without breakage of glass during the washing process.

The Ampwash is a sturdy but flexible machine; by making a few simple adjustments, the machine can be adapted to feed and cleanse glass containers of an assortment of sizes and shapes and can also be adapted for continuous and cyclic operations.

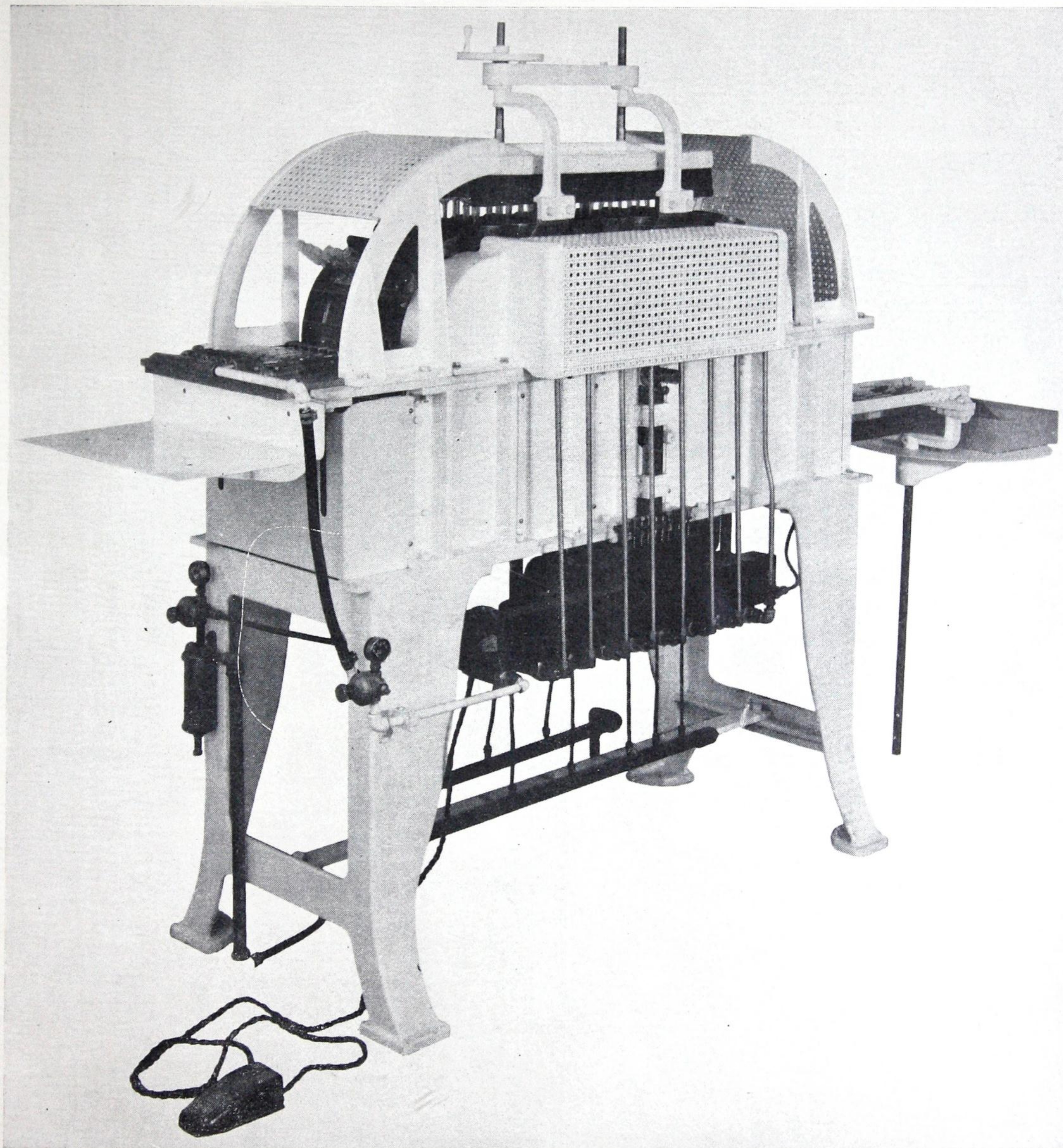
Each ampoule may be subjected to a succession of different cleansing operations, each of which may be followed by a liquid-expelling and drying operation that removes all traces of the cleansing fluid used during the previous operation; thereby preparing the ampoules to receive the same or a different cleansing fluid during the next process. Eight washing stations are provided, so that the ampoules may be subjected to eight varieties of cleansing agents, such as: liquid, air, steam, etc. Each cleaning fluid selected is delivered independently of the other into each ampoule or tube only while the ampoule is at that station. During the travel of the ampoules from station to station, the supply of the fluid is automatically turned off. The amount of the liquid consumed may be increased or decreased by regulating the pressure applied to each individual line. In this way cleaning fluids are used when and in an amount necessary, and there is no mixing of two or more fluids together.

The Ampwash can be stopped at any time during the successive cleaning stations, and by means of valve control, the supply of liquid is automatically closed.

An improved feeder is provided for accurately and automatically locating the ampoules on each of the cleaning nozzles in a manner that eliminates the possibility of chipping.

The machine is of the conveyor type design with a series of trough assemblies. As the machine revolves, the needles and troughs pass to a horizontal position where a synchronously driven ampoule-feeding mechanism aligns the ampoules and needles and places the ampoules on the needles. The movement of the conveyor lifts the ampoules out of the loading mechanism, and subsequent movements place them in a vertical position with the open ends down. As each trough arrives at one of the cleansing stations a connection is made by means of a valve mechanism and the liquid or air or steam or other substance is forced in a predetermined amount through the supporting needles into the inverted ampoules or tubes. Immediately upon the shutting off of the liquid, the inverted ampoules drain into the troughs and may continue to drain as the conveyor moves on to the next station.

Perfektum Ampwash Ampoule Washing Machine



MADE IN U.S.A.

PATENT APPLIED FOR



Method of Operation

The operator simply places the unclean tubes or ampoules on the loading channels after which they are automatically aligned with the washing needles, placed thereon, and moved through the successive cleansing, washing and drying operations. After the ampoules are subjected to the action of a cleansing substance throughout the eight stations, they are discharged on a conveyor and are ready for the autoclave or, if desired, for the filling and sealing operations. The washing operation is continuously intermittent and allows just enough dwell period at each station to insure proper loading, proper connecting and disconnecting of the feed-fluid lines, and enough time to insure adequate washing and drying time without mixing of the fluids used.



PerfeKtum Products Co.

**300 Fourth Avenue
New York 10, N. Y.**



Cable Address: "Tantalum", New York